UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

January 1966

PART II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

CONTENTS

	Page
Sea Surface Temperature Charts, Eastern Pacific Ocean, January 1966	1

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SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN

JANUARY 1966

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U. S. Bureau of Commercial Fisheries Biological Laboratories, La Jolla, California; Honolulu, Hawaii; and Seattle, Washington

U. S. Weather Bureau, San Diego, California

U. S. Naval Communication Station Balboa, Fort Amador, Canal Zone

U. S. Weather Bureau Port Meteorological Office, Cristobal, Canal Zone

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Scripps Institution of Oceanography, La Jolla, California by Margaret Robinson and Hans Klein

Ships Bali and West Point

Charts

Figure 1. --Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperatures at weathership stations. Numerals on shore are temperatures at coastal and lightship stations.

Figure 2. --Deviation of sea surface temperatures (°F) from long term charts of H.O. 225. Hatched areas are colder in 1966.

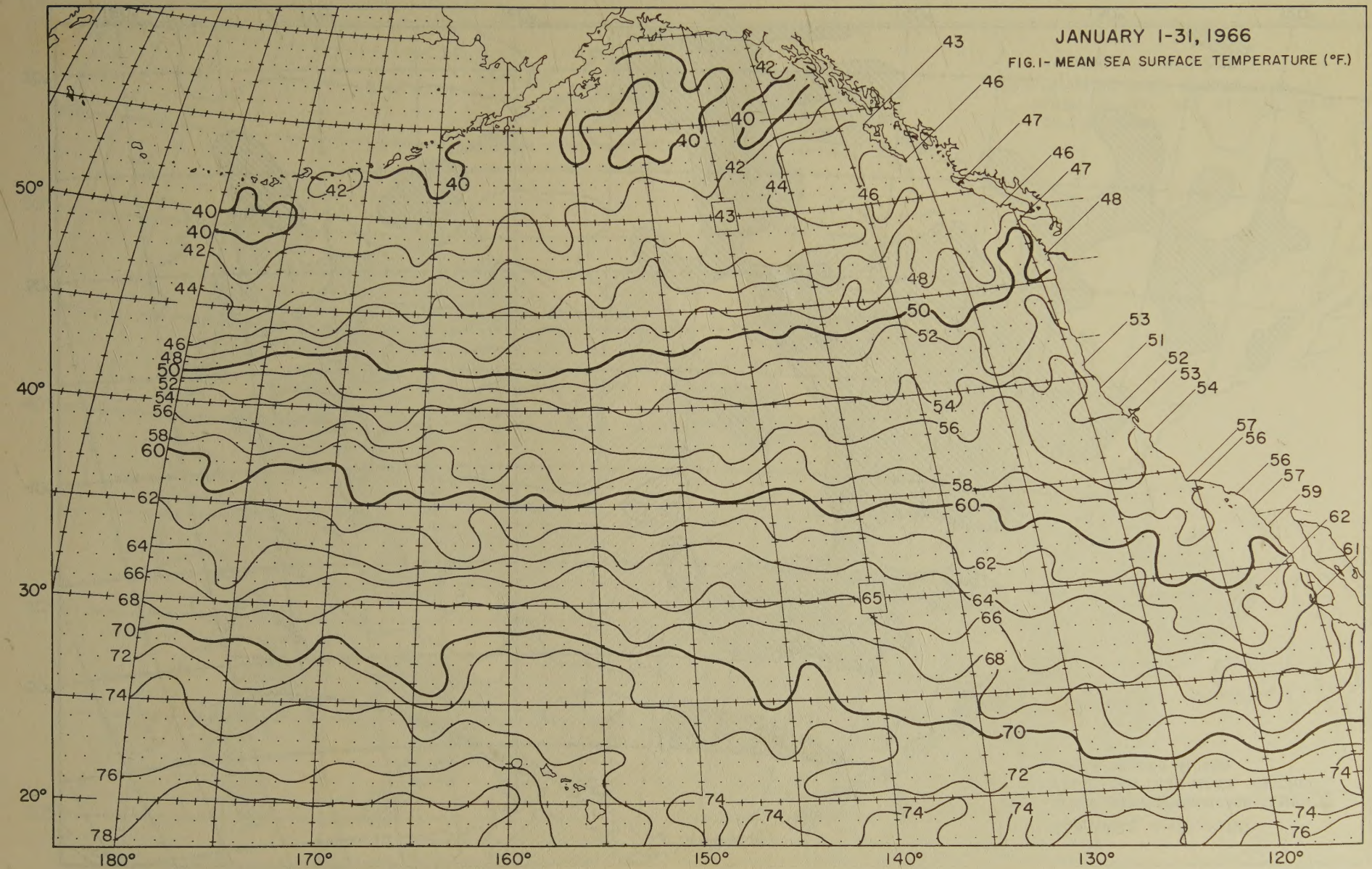
Figure 3. --Deviation of sea surface temperatures (°F) from those of January 1965. Hatched areas are colder in 1966.

Figure 4. --Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal stations.

Figure 5. --Deviation of sea surface temperatures (°F) January 1966-January 1965 by 1-degree squares. Shaded areas are colder in 1966.

Figure 6. --Deviation of sea surface temperatures (°F) from 12-year mean (1947-1958) by 2-degree squares. Shaded areas are colder in 1966.

James A. Renner
Fishery Biologist (General)


JANUARY 1-31, 1966
FIG. 1- MEAN SEA SURFACE TEMPERATURE (°F.)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
43
46
47
46
47
48
42
40
40
42
40
42
44
46
43
40
40
42
44
48
50
52
46
48
50
52
54
56
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74
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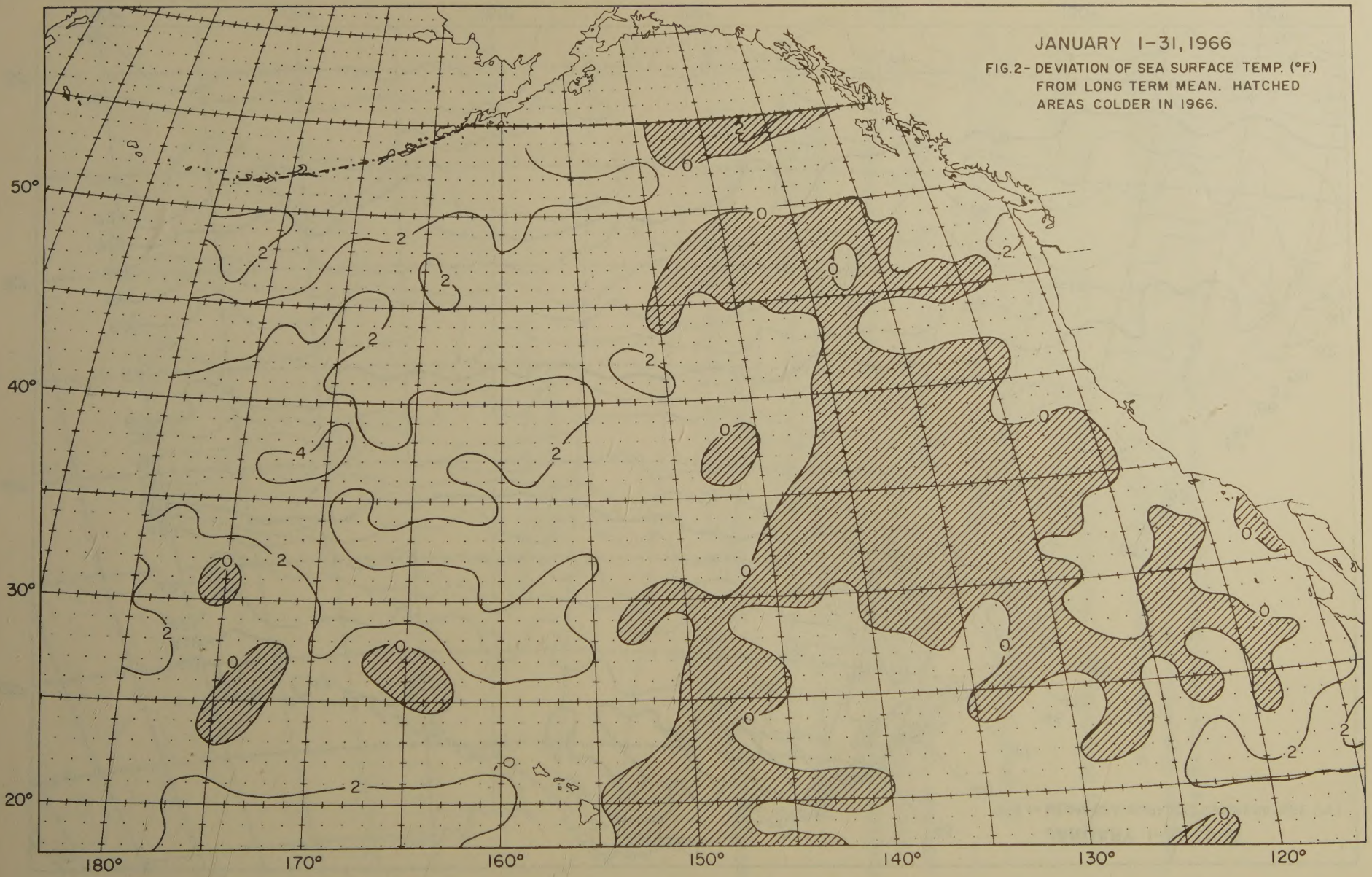
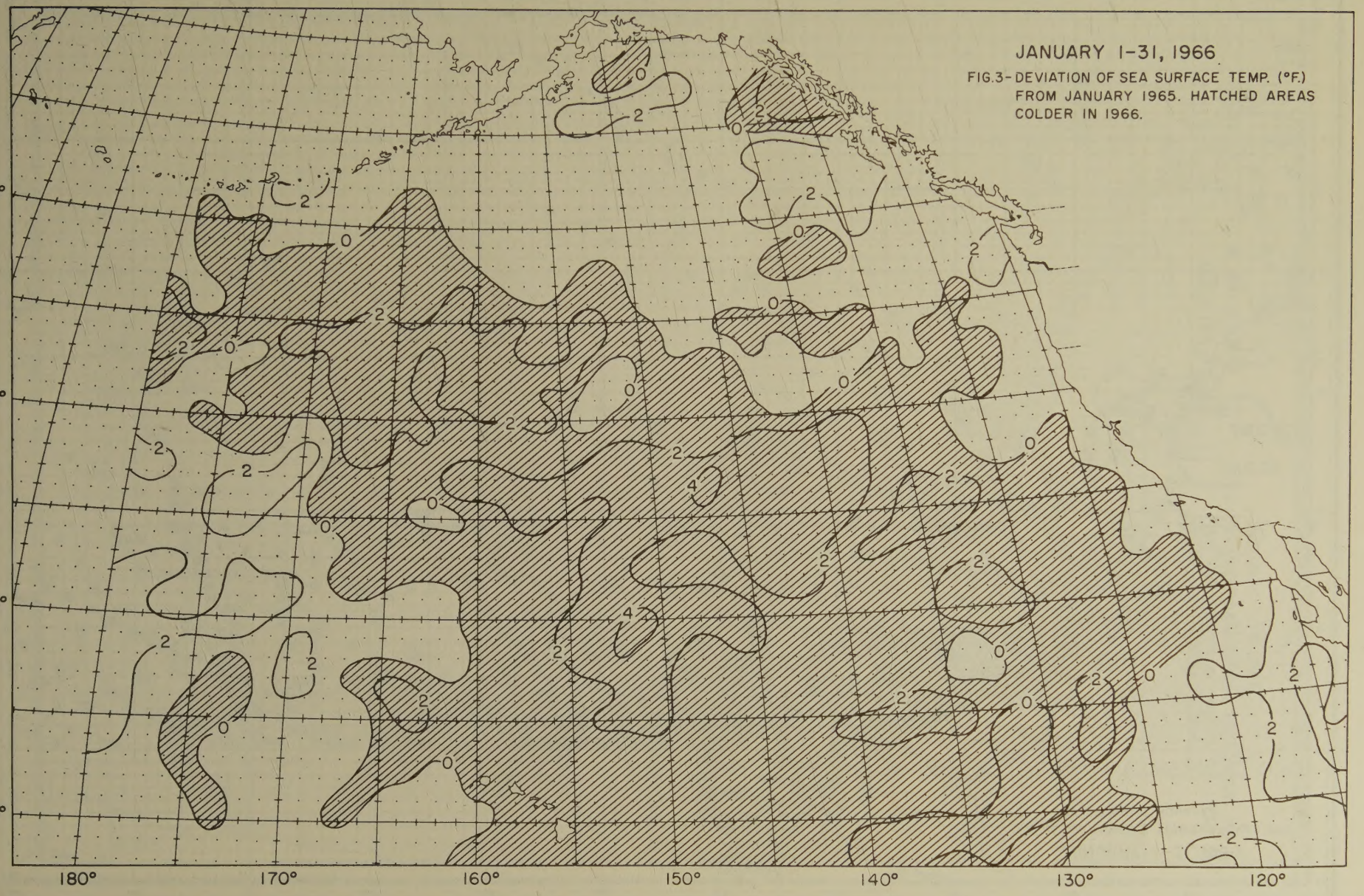
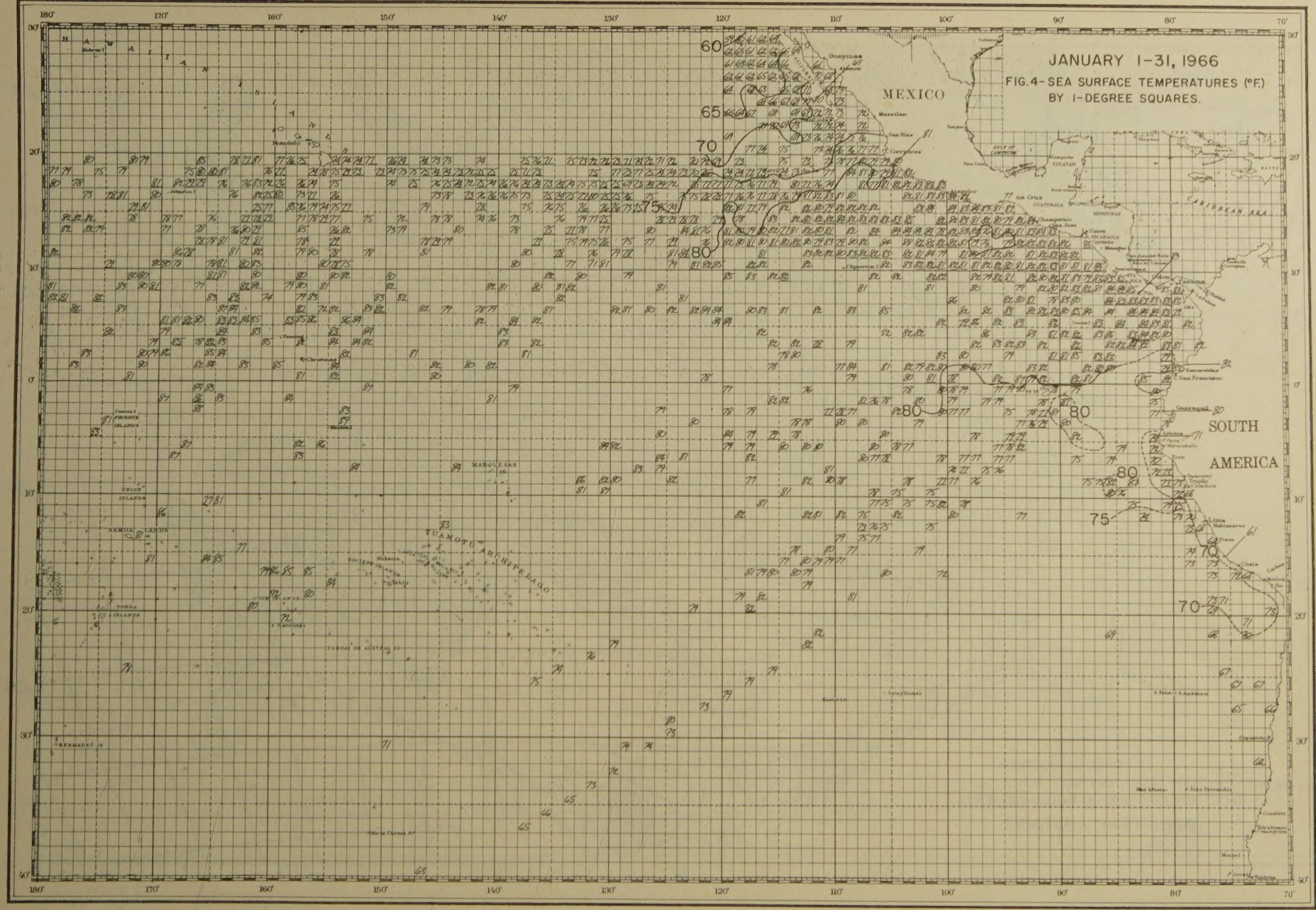
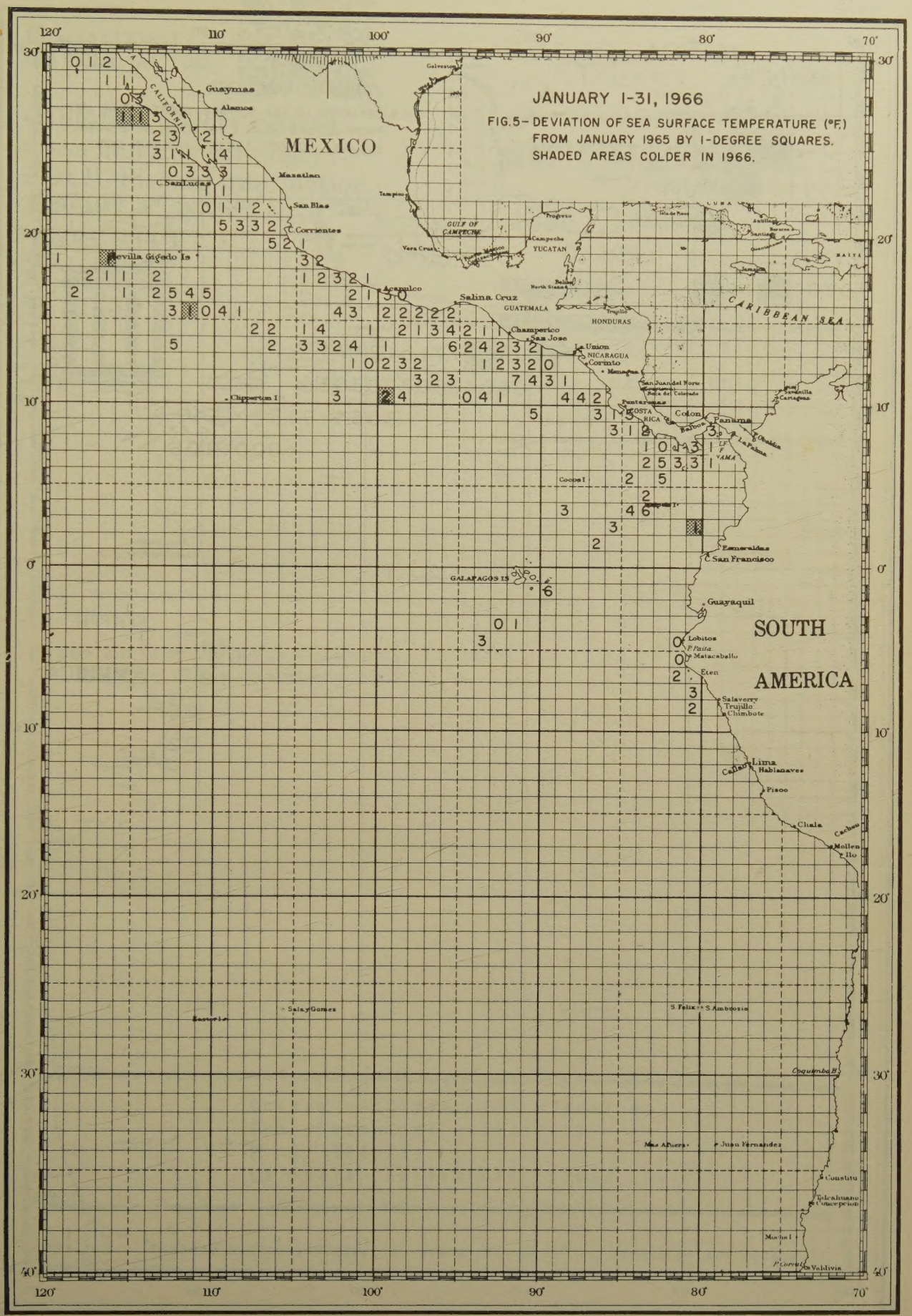
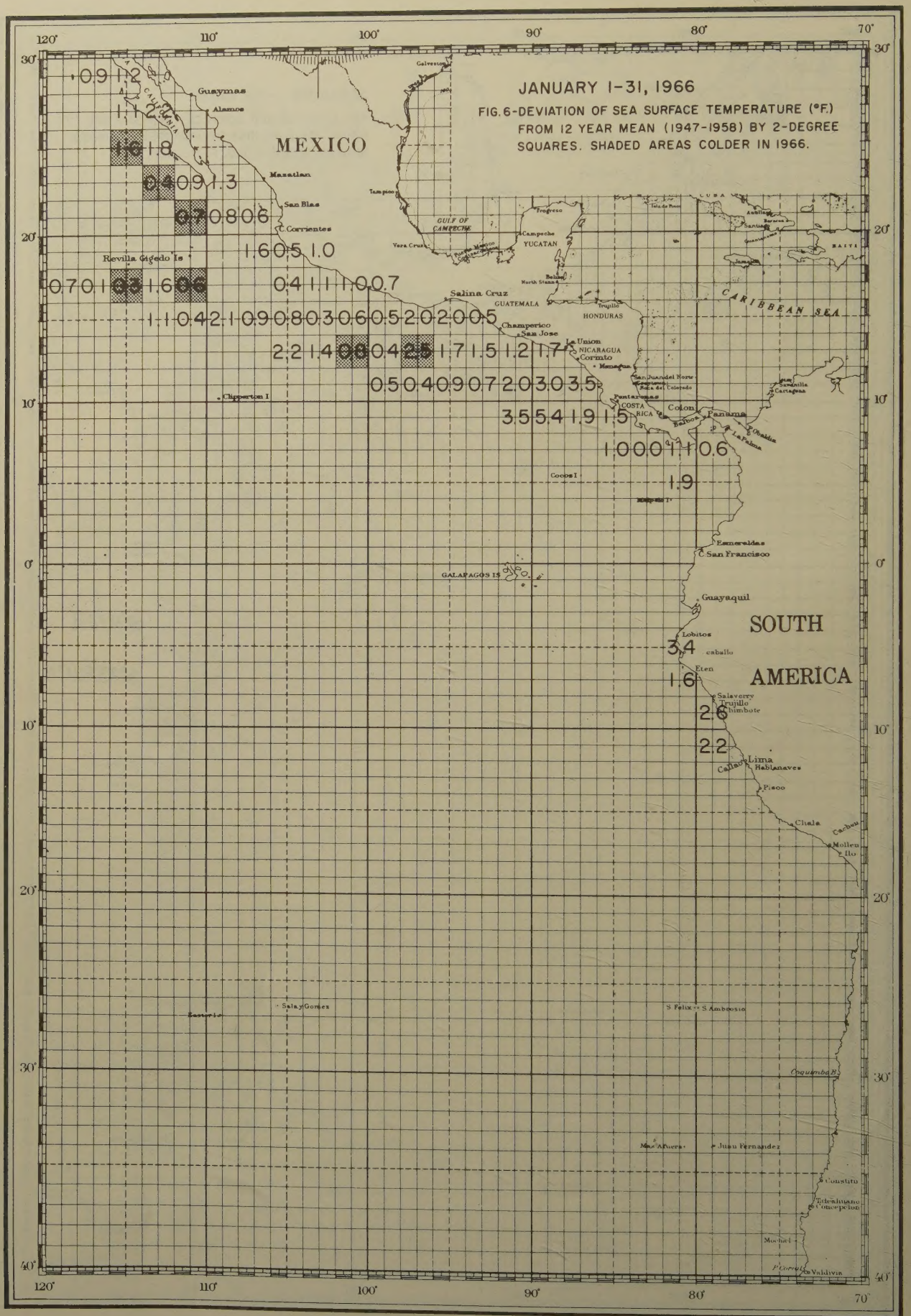

JANUARY 1-31, 1966
FIG. 2 - DEVIATION OF SEA SURFACE TEMP. (°F.) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1966.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


JANUARY 1-31, 1966
FIG.3- DEVIATION OF SEA SURFACE TEMP. (°F.) FROM JANUARY 1965. HATCHED AREAS COLDER IN 1966.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


JANUARY 1-31, 1966
FIG. 4 - SEA SURFACE TEMPERATURES (°F.)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
CARIBBEAN SEA
HAWAIIAN ISLANDS
Honolulu
MARQUESAS
TUAMOTU ARCHIPELAGO
SOCIETY ISLANDS
SAMOA
TONGA
ISLANDS
KERMADEC IS
Guaymas
Mazatlan
San Blas
Corrientes
Acapulco
Salina Cruz
Champerico
Puerto Quetzal
Callao
Lima
Valparaiso
Juan Fernandez
Mas Afuera
Easter I
Galapagos
Cocos I
Clipperton I
Jarvis I
Palmyra I
Fanning I
Christmas I
Canton I
PHOENIX
ISLANDS
UNION
ISLANDS
TUBUAI OR AUSTRAL IS
Marie Therese Rf
60
65
70
75
80
85


JANUARY 1-31, 1966
FIG.5- DEVIATION OF SEA SURFACE TEMPERATURE (°F.) FROM JANUARY 1965 BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1966.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CALIFORNIA
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
PANAMA
YUCATAN
HAITI
JAMAICA
CUBA
GALAPAGOS IS
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Acapulco
Salina Cruz
Champerico
San Jose
La Union
Cormito
Managua
Chipperton I
Cocos I
Esmeraldas
San Francisco
Guayaquil
Lobitos
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Pisco
Chala
Mollendo
Arica
Sala y Gomez
S. Felix
S. Ambrosio
Juan Fernandez
Valdivia
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°
40°


JANUARY 1-31, 1966
FIG. 6-DEVIATION OF SEA SURFACE TEMPERATURE (°F.) FROM 12 YEAR MEAN (1947-1958) BY 2-DEGREE SQUARES. SHADED AREAS COLDER IN 1966.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
CUBA
HAITI
GALAPAGOS IS
Guaymas
Alamos
Mazatlan
San Blas
C. Corrientes
Revilla Gigedo Is
Salina Cruz
Champerico
San Jose
Corinto
Managua
Clipperton I
Cocos I
Panama
Colon
Esmeraldas
C. San Francisco
Guayaquil
Lobitos
caballo
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Pisco
Chala
Salas y Gomez
S. Felix
S. Ambrosio
Juan Fernandez
Valdivia
Concepcion
120°
110°
100°
90°
80°
70°
40°
30°
20°
10°
0°